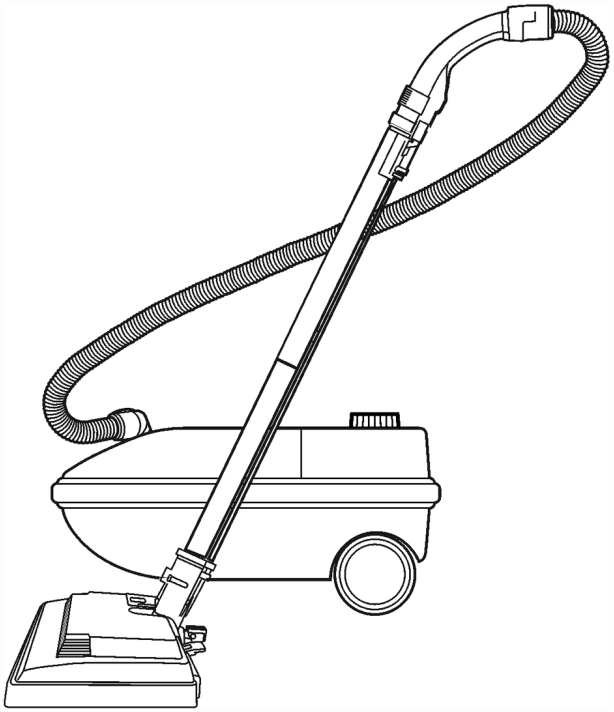
Order Number MAC0402002C1
E4

Service Manual

Vacuum Cleaner



MC-V9634-00

Model	MC-V9634 00
Power Source	AC 120V (60 Hz)
Power Consumption	12 Amps
Cord Length	20 FT.
Headlight	YES
Attachments, Tools-on-Board	YES

Specifications are subject to change without notice for further improvement.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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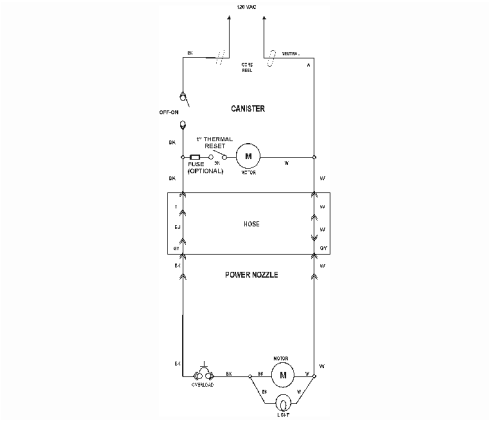
1 WIRING DIAGRAM

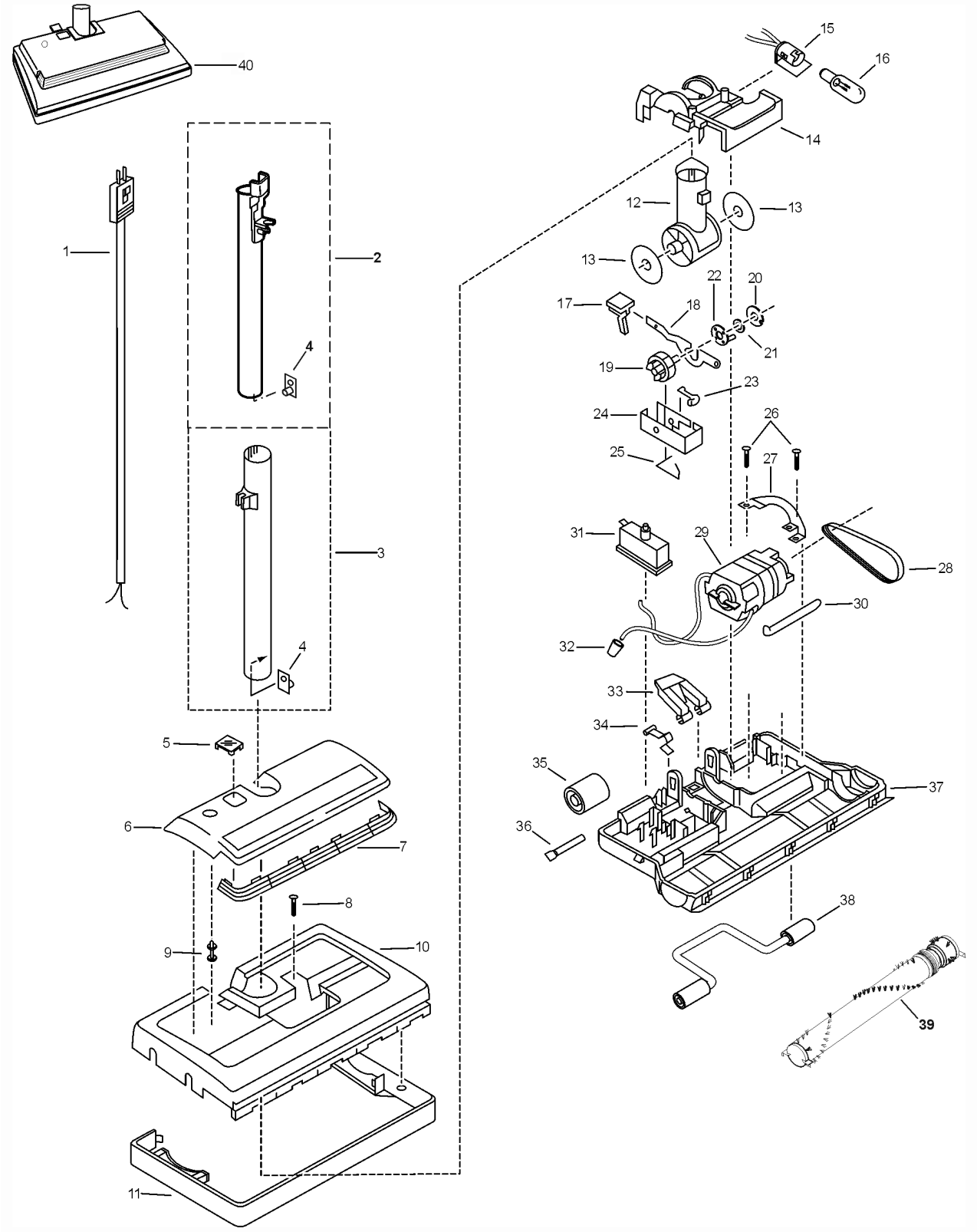
1.1. Wiring Schematic



2 EXPLODED VIEW AND PARTS LIST

2.1. Power Nozzle

2.1.1. Exploded View

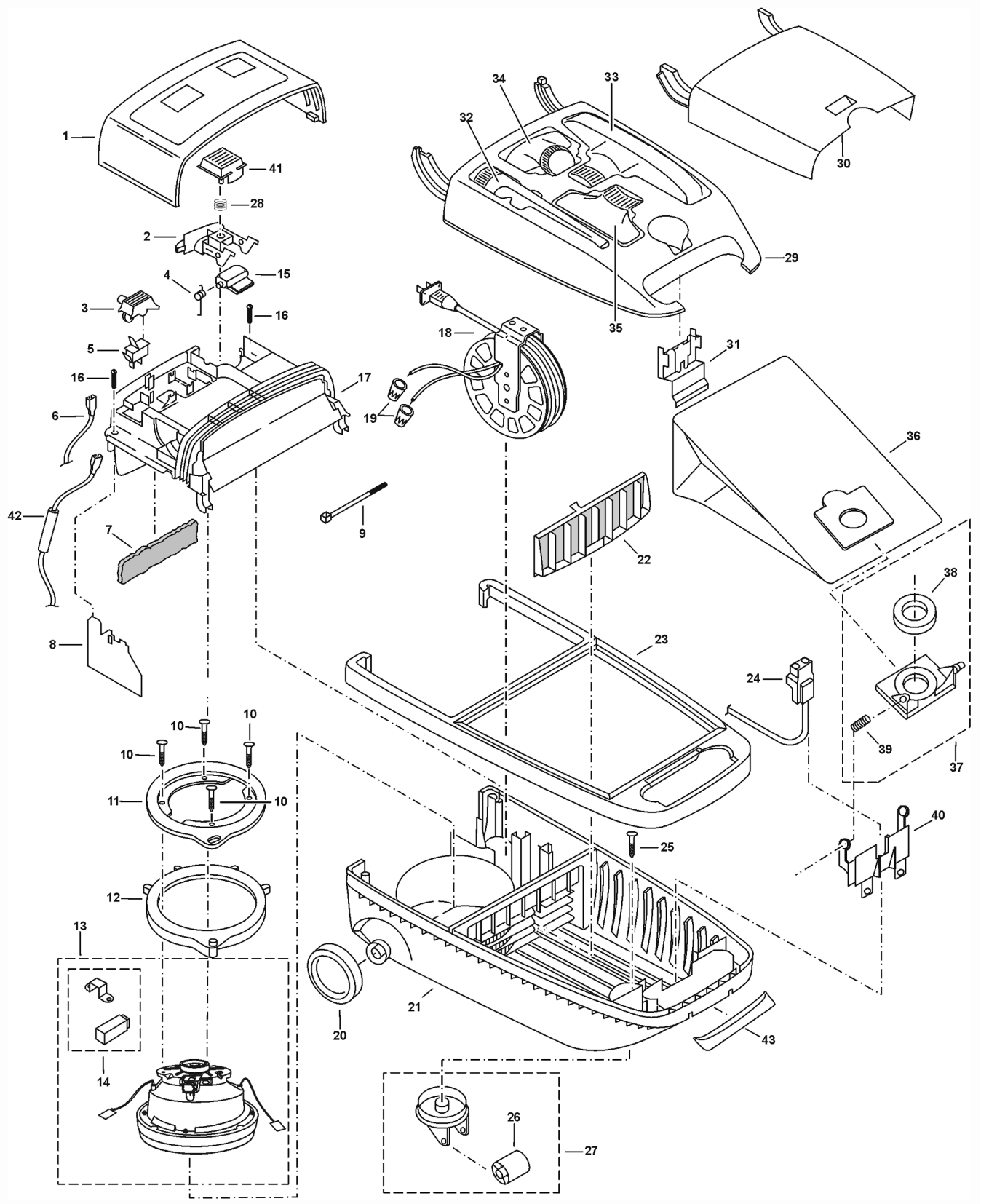


2.1.2. Parts List (Power Nozzle)

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC73EAWXZV06	Cord Unit	1	
2	AC97PAKZZV06	Wand Assembly, Upper	1	
3	AC99PMMZV06	Wand Assembly, Lower	1	
4	AMC725-419	Lock, Spring Wand	2	
5	AMC744-237	Lens, Height Adjustment	1	
6	AC24HCHJZC01	Power Head Cover	1	
7	AMC744-119	Lens, Light Cover	1	
8	AMC681-550	Screw, Nozzle Cover	2	Shipped 10 per package
9	AMC744-280	Extension, Button	1	
10	AC02RSRZC01	Cover, Nozzle	1	
11	AC10ASRZV07	Guard, Furniture	1	
12	AMC415-5049	Swivel	1	
13	AMC742-019	Seal, Swivel	2	
14	AC25QMGZV06	Swivel Cap	1	
15	AC93HBNXZ000	Socket, Bulb	1	
16	AC28GADFZ00	Bulb, Headlight	1	
17	AC48AMGZV06	Pad, Foot Pedal	1	
18	AMC747-287	Lever, Indicator	1	
19	AMC725-725	Cam, Indicator	1	
20	AMC722-909	Washer, Thrust	1	
21	AMC725-635	Washer	1	
22	AMC722-955	Catch, Indexing	1	
23	AMC742-016	Ratchet, Catch	1	
24	AMC742-015	Indicator Block	1	
25	AMC725-775	Spring, Assist	1	
26	AMC681-297	Screw, Motor Bridge	2	Shipped 10 per package
27	AMC705-093	Bridge, Motor	1	
28	AC28SAXAZ000	Belt, Micro Groove (Type CB-6)	1	
29	AC90FCAMZ000	Motor, Nozzle	1	
30	AMC742-002	Spring, Motor Adjust	1	
31	AMC742-332	Overload, Protector	1	
32	AMC-1CTCE23	Connector, Wire	1	Shipped 10 per package
33	AC47AGJZV06	Release, Handle	1	
34	AMC742-013	Lifter	1	
35	AC01CAKZZV06	Roller, Rear	2	
36	AMC742-006	Axle, Rear	2	
37	AMC03RAXAZU01	Base	1	
38	AMC744-029	Axle Assembly, Front	1	
39	AC84RCHJZ000	Agitator Assembly	1	
40	AC50XCHJZC01	Power Nozzle Assembly	1	May be ordered as complete assembly

2.2. Canister

2.2.1. Exploded View

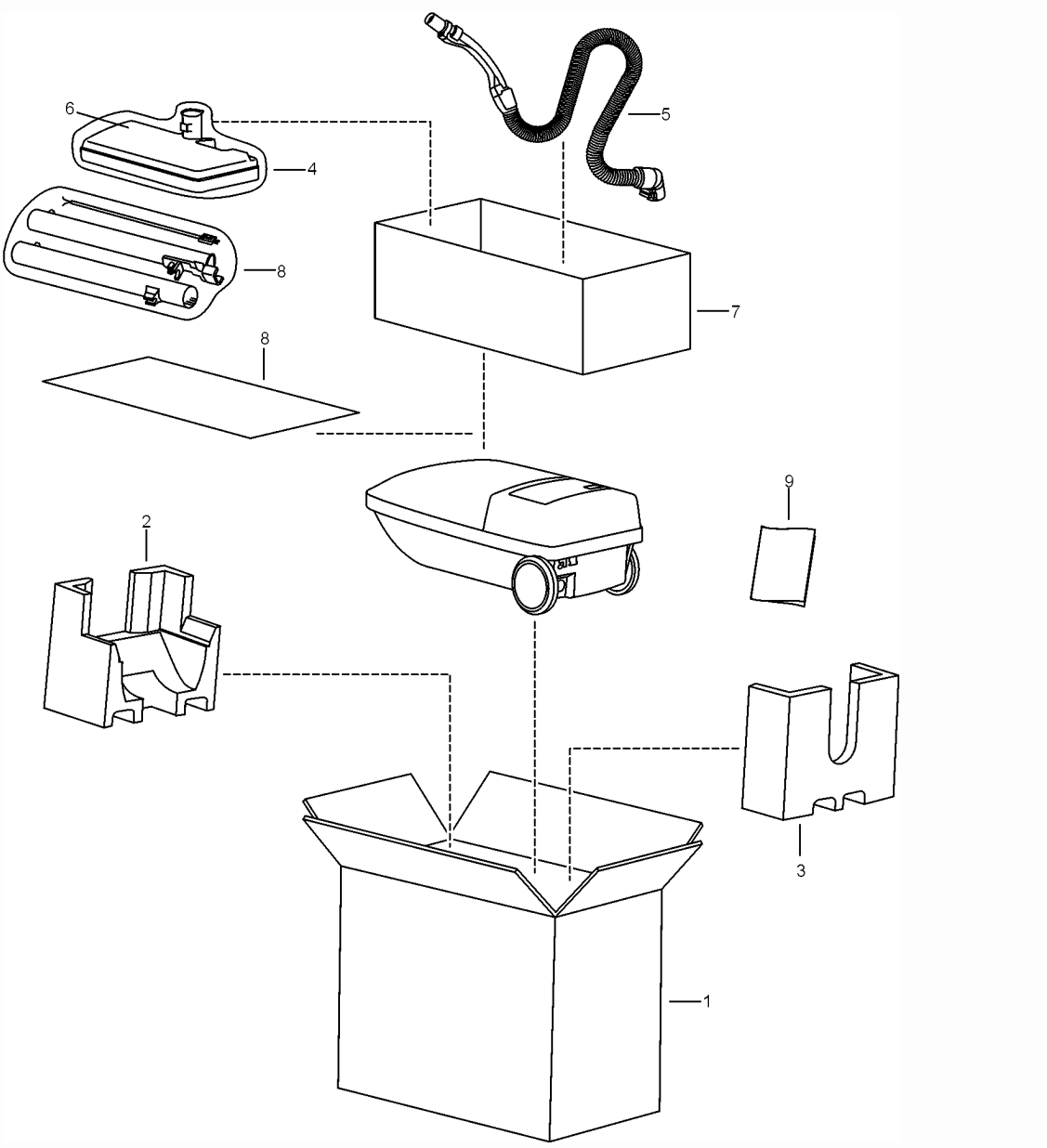


2.2.2. Parts List (Canister)

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC48HCHJZCU1	Canopy Cover	1	
2	AC58NABFZV07	Frame, Cord Lock	1	
3	AC01EAFNZV07	Button, Toggle	1	
4	AMC414-9726	Spring, Cord Lock	1	
5	AMC415-2559	Switch, Toggle	1	
6	AMC706-941	Lead Switch Black	1	
7	AMC706-389	Filter, Rear Exhaust	1	
8	AMC415-3813	Motor Protector (Shield)	1	
9	AMC596-702	Tie, Cable	1	
10	AC68ABJCZ000	Screw # 10-16 x 3/4	4	Shipped 10 per package
11	AMC706-011	Plate, Motor Mount	1	
12	AMC706-821	Mount, Motor	1	
13	AC92FBJCZ000	Motor	1	
14	AMC27F-TAZ0000	Brush, Motor	1	
15	AMC748-005	Cord Lock	1	
16	AMC681-550	Screw # 8-18 x 1 7/8	2	Shipped 10 per package
17	AC50HABFZV07	Canopy	1	Includes items 3 and 7
18	AC99NBJCZV06	Cord Reel	1	
19	AMC415-4460	Wire Nut	2	Shipped 10 per package
20	AC01CCBVZV07	Wheel, Rear	2	
21	AC03AGEZV07	Lower Body	1	
22	AMC415-2969	Filter, Safety	1	
23	AC31ACBVZV07	Furniture Guard	1	
24	AC90EATTZV06	Receptacle	1	
25	AMC706-884	Pin, Caster Retainer<	1	
26	AC27CACCZV07	Wheel, Caster	1	
27	AC93CACCZV07	>Caster, Swivel Assembly	1	
28	AC71NGFZ00	Spring, Brake Button	1	
29	AC85KCHJZCU1	Dust Box Unit	1	Includes Tool Storage Cover
30		Tool Storage Cover	1	Included with Dust Box Unit
31	AC01DAXAZV07	Release, Lid	1	
32	AC60RAKZZV06	Crevice Tool	1	
33	AC96RMUZV06	Floor Brush	1	
34	AC88RAKZZV06	Dusting Brush	1	
35	AC86RAKZZV06	Fabric Brush	1	
36	AC16KGFZ00	Dust Bag	1	
37	AMC415-5800	Bag Mount	1	Includes B-38, B-39
38	AMC706-017	Gasket, Port	1	
39	AMC706-024	Spring, Bag Mount	1	
40	AC23KAKZZV07	Strike Insert	1	
41	AC46NAFNZV07	Cord Reel Button	1	
42	AC99WBRAZ000	Lead Fuse Assembly	1	
43	AC50BCBWZV07	Handle Grip	1	

2.3. Packing Materials

2.3.1. Exploded View



2.3.2. Parts List

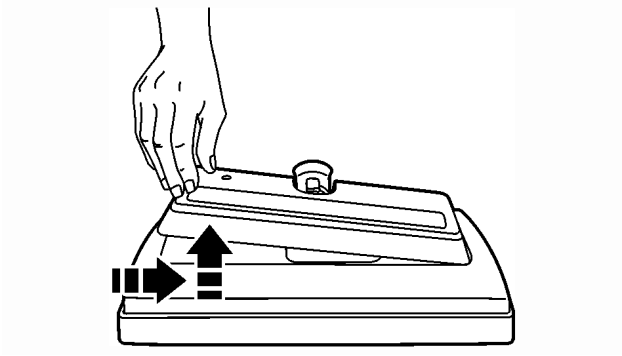
Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC61ZCHJZOOO	Individual Carton	1	Includes 1 and items a-h
2	AC69ZVHZ00	Cushion “A”	1	
3	AC70ZVHZ00	Cushion “B”	1	
4	AMC414-7959	Foam (Power Nozzle)	1	
5	AC94PAMFZV06	Hose Assembly	1	
6	AC50XCHJZC01	Power Nozzle	1	
7	AMC752-892	Corrugated Sheet	1	
8	AMC414-7960	Foam (Canister, Wands)	2	
9	AC01ZCHJZ000	Operating Instructions	1	

3 SERVICE PROCEDURES - POWER NOZZLE

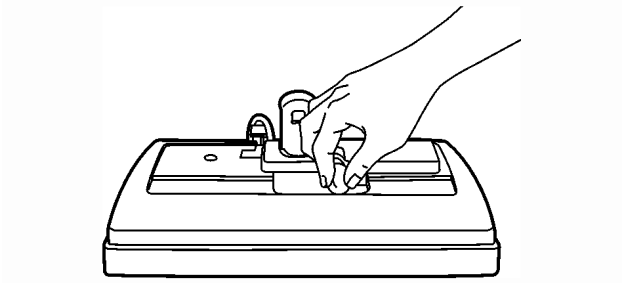
3.1. HEADLIGHT BULB

3.1.1. Bulb Removal & Replacement

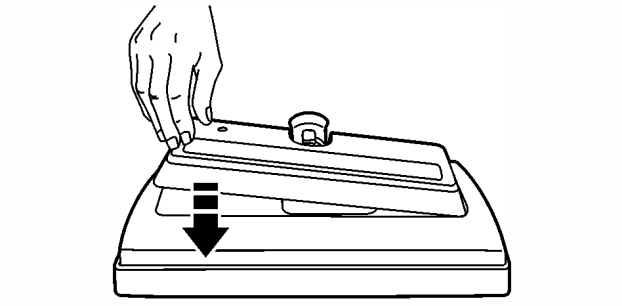
1. Press in and lift at the same time on one side of the light cover to release the locking tab, then remove cover and light lens.



2. Push in and turn the light bulb to remove. Replace with 15-watt bayonet-base type light bulb.



3. Replace the light cover and lens.

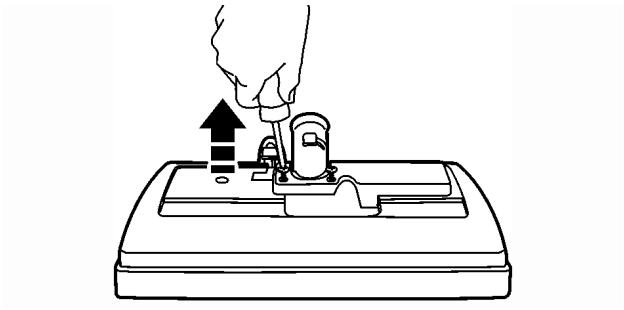


NOTE: Be sure red belt protector button extension is in place and aligned in cover opening.

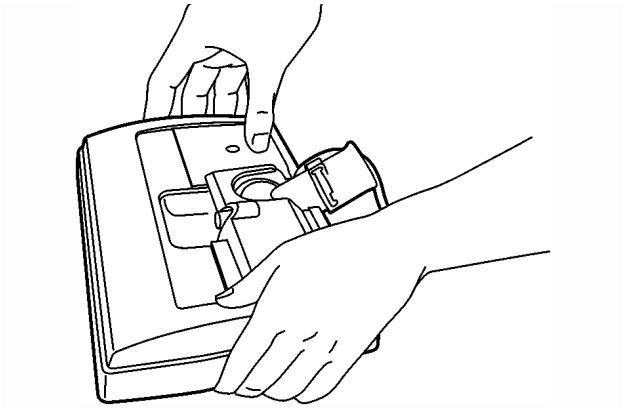
3.2. BELT

3.2.1. Belt Removal & Replacement

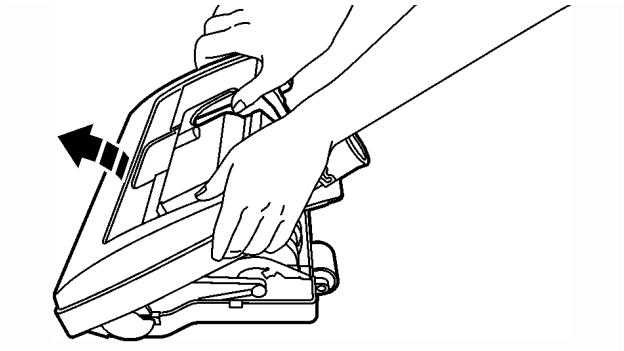
1. Remove headlight cover and headlight lens (see Bulb Removal & Replacement).
2. Take out two (2) screws to remove nozzle cover.



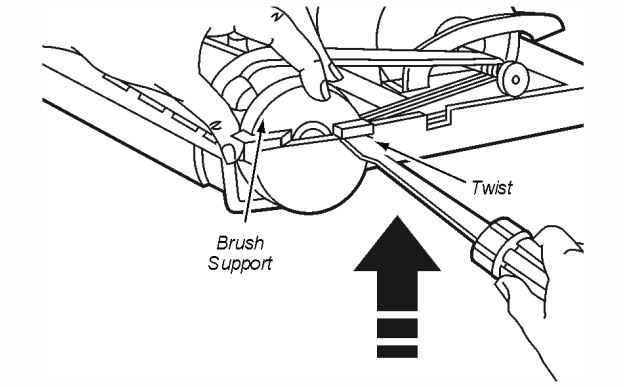
3. Grasp both sides of the cover and flex outward to release the side tabs.



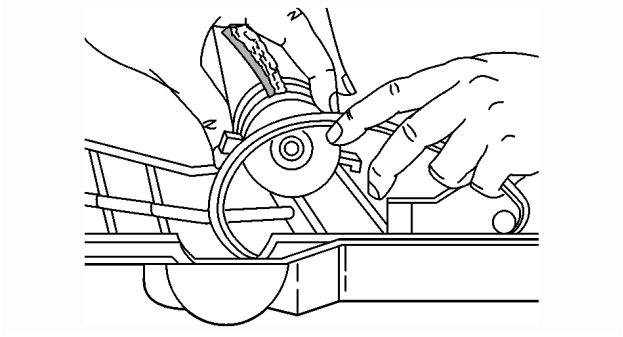
4. Tilt the cover forward to free the front tabs.



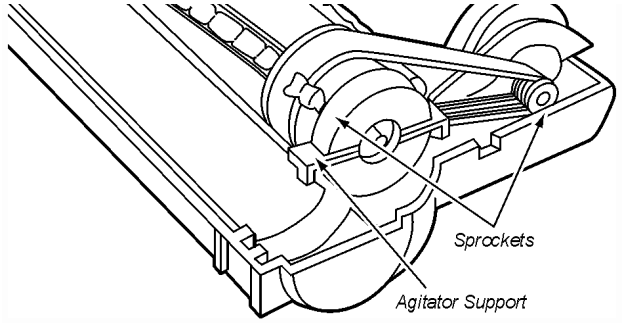
5. Carefully insert and twist a screwdriver between each brush support and the base, to free the brush assembly.



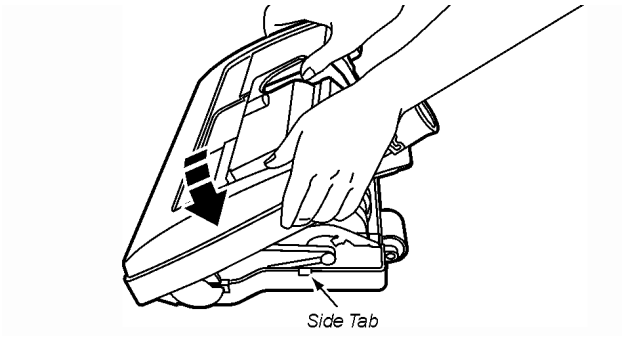
6. Lift the brush assembly to slide off the old belt.



7. Place the new belt on the brush and motor drive sprockets. Lower the brush assembly into the base. Snap brush supports into place.



8. To replace the nozzle cover engage the front tabs first, then press down on both sides to lock the side tabs.



9. Replace the nozzle cover screws.

   NOTE: Do not overtighten. Overtightening could strip the screw holes.

10. Replace the headlight cover, (see Belt Removal & Replacement).

    NOTE: Be sure red belt protector button extension is in place and aligned in cover opening.

3.3. POWER NOZZLE MOTOR

3.3.1. Specifications

1. 120V., 60Hz.
2. Amps 2.0/2.7 (max.) at 18,000/14,550 R.P.M.
3. Watts 225/298 (max.) at 18,000/14,550 R.P.M.
4. Torque 55/100 Nm at 18,000/14,550 R.P.M.

3.3.2. Motor Replacement

1. Remove light cover, nozzle cover and brush assembly.
2. Remove two (2) motor bridge screws. Lift out bridge and motor.

   NOTE: Observe routing of motor wires and all other wiring before removing motor.

3. Hook a finger under the center of the overload protector and lift to free it from the retaining tabs. Remove the overload protector wire terminals. Check continuity by depressing the button completely. When the button is released there should be continuity between the two poles when checked. If all components and items in the troubleshooting guide have been checked and the overload protector continues to trip, it should be replaced.
4. Insert a flat screwdriver blade between the indicator block assembly and the plastic retainer for the four (4) wires. Pry up and out to free the indicator block assembly from the retaining tabs.
5. Unscrew wire nuts to free motor lead wires.
6. Install new motor. Assure motor is fully seated on all four (4) front and rear base supports. Rear motor housing flange should be in slot of base support.

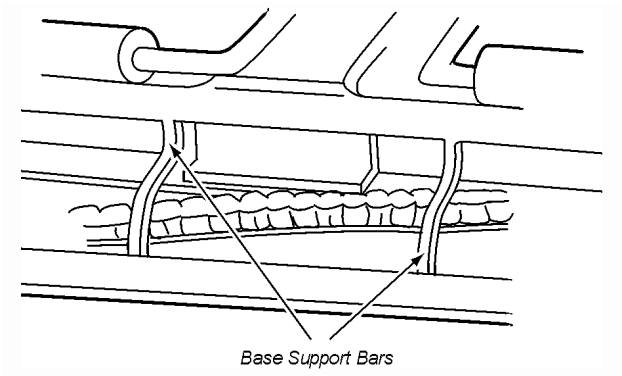
   CAUTION: Do not pinch white wire.

7. Install motor bridge and secure with two (2) screws.
8. Reroute all wiring per original layout utilizing wire retainers provided, and proper placement of wires to prevent pinching of wires and interference when reinstalling the indicator block assembly. Connect wires and apply wire nuts, (reference WIRING DIAGRAM).
9. Install indicator block assembly. Holding the assembly at a slight angle, insert the edge of the part behind the retaining tabs (use T-shaped tab on assembly to align in slot of retaining tab). With fingers lifting base off the floor (to free front axle) use both thumbs to push the indicator block assembly down until it snaps in place.
10. Install the overload protector by snapping into position between the two retaining tabs and with one end pushed up against the indicator block assembly.
11. Replace remaining parts (see Belt Removal & Replacement).

3.4. AGITATOR BRUSH

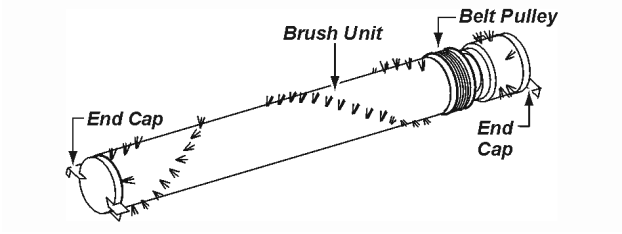
3.4.1. Brush Checking

1. Replace the agitator brush if brushes are badly worn. Lay a straight edge across the base supports and rotate the agitator brush dowel. The brushes should extend past the brush supports.



3.4.2. Agitator Assembly Replacement

1. Remove light cover and light lens, (see Bulb Removal & Replacement).
2. Remove nozzle cover, (see Belt Removal & Replacement).
3. Remove old agitator assembly.
4. Discard the old agitator assembly.
5. Replace new agitator.
6. Replace the nozzle cover, screws and light cover, (see Belt Removal & Replacement).



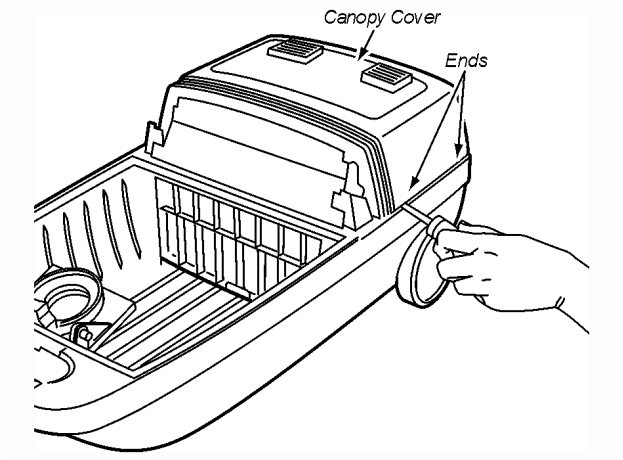
4 SERVICE PROCEDURES - CANISTER

4.1. Canopy Cover

The canopy cover has a place on each of the four (4) corners where it is locked in place.

4.1.1. Removal

1. Place a very small flat blade screwdriver under the side corner as indicated by the arrow in the illustration.



2. Pry out until the corner stays out.
3. After popping this corner loose move the screwdriver to the rear corner on the same side.
4. Place the screwdriver under the canopy cover in the same position as the other end was done.
5. Hold the cord reel bracket and pull enough of the power cord out to get the canopy cover out of the way.
6. Once the corners are free on one side there is no need to pry on the other side.
7. Raise the cover towards the opposite side until it comes off.

4.1.2. Replacement

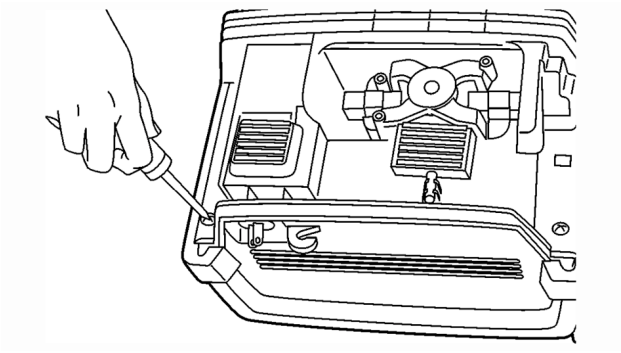
1. Set the canopy cover in position and tap down on the two (2) corners closest to the power cord end.
2. Tap the other end down to seat both corners.

4.2. CANISTER MOTOR

The canister motor can be replaced in its entirety or it can be serviced by replacing the fan assembly or the carbon motor brushes. Follow the preceding instructions to gain access to the motor.

4.2.1. Removal

1. Remove the canister hood, canopy cover, motor shield, cord reel button, switch button and cord reel lock assembly (See Canister Exploded View and Canister Parts List (Canister) for parts identification).
2. Remove the two (2) canopy screws at the rear of the canopy.



3. Lift up the canopy and rock it towards the front of the cleaner to remove.

   NOTE: Be sure red belt protector button extension is in place and aligned in cover opening.
4. Remove the two (2) switch wires.
5. Hold the cord reel bracket and pull enough of the power cord out to get the canopy cover out of the way.
6. Secure the power cord to prevent retracting as you are servicing the motor.
7. Remove the two (2) switch wires.
8. Remove the wire nuts.
9. Take loose the white and black motor wires.

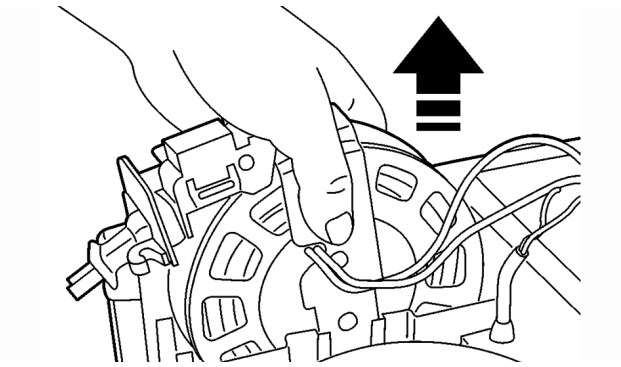
   CAUTION: Note the position of the metal motor plate; part of the plate has a rubber protrusion with a small hole that mounts over a plastic peg when reinstalling the motor.

   NOTE: The motor should be positioned with the thermal protector facing towards the front of the canister.

4.3. CORD REEL

4.3.1. Removal

1. Disconnect both cord reel wires.
2. Lift the cord reel straight up to remove.

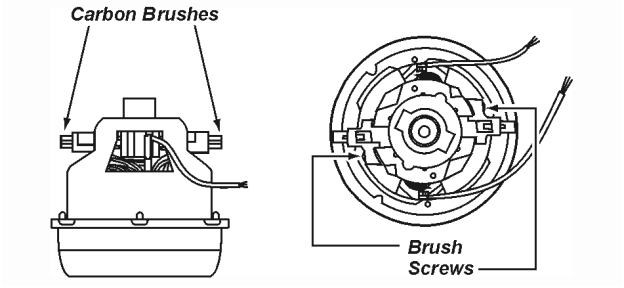


3. To remove the power cord head from out of the cord lock assembly the black brake part will have to be removed.
4. Do this by prying it out of the retainers.
5. Note the position of the small spring for reassembly,

4.4. CARBON BRUSH

4.4.1. Removal

1. Complete brush change on one side before starting on the other side.
2. There are two (2) brushes located on the motor as identified in the illustration below.

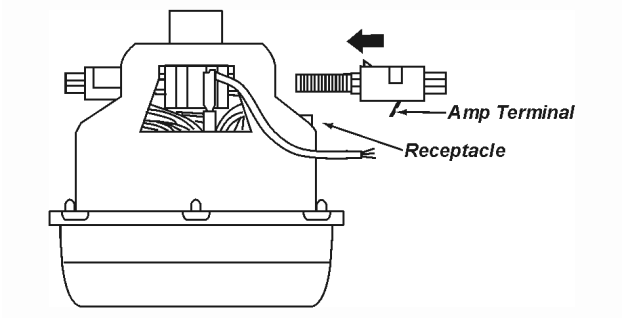


3. Remove the brush assembly by using a Phillips head screwdriver to remove the screw that holds the brush holder onto the motor.
4. See the illustration above for screw location.

   NOTE: Do not drop screws into the motor.

4.4.2. Replacement

1. Place new brush assembly on the motor.
2. Make sure that the amp terminal on the bottom of the brush assembly is inserted into the receptacle on the motor.



3. Replace the Phillips screw that was removed.
4. Repeat steps in Removal & Replacement steps for the other brush assembly.

   NOTE: Do not drop screws into the motor.